Title (en)

PROCESS FOR PRODUCTION OF POLY(3-HYDROXYBUTYRATE-CO-3-HYDROXYHEXANOATE) USING A GENETICALLY MODIFIED CUPRIAVIDUS NECATOR HAVING AN ENOYL-CoA HYDRATASE GENE INTRODUCED THEREIN

Title (de)

VERFAHREN ZUR HERSTELLUNG VON POLY(3-HYDROXYBUTYRAT-CO-3-HYDROXYHEXANOAT) MITTELS GENETISCH MODIFIZIERTER CUPRIAVIDUS NECATOR MIT EINEM DARIN EINGEFÜHRTEN ENOYL-CoA-HYDRATASE-GEN

Title (fr)

PROCÉDÉ DE PRODUCTION DE POLY(3-HYDROXYBUTYRATE-CO-3-HYDROXYHEXANOATE) UTILISANT UN CUPRIAVIDUS NECATOR GÉNÉTIQUEMENT MODIFIÉ AYANT UN GÈNE D'ÉNOYL-CoA HYDRATASE INTRODUIT EN LUI

Publication

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Application

EP 11747340 A 20110222

Priority

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- JP 2011053861 W 20110222

Abstract (en)

Summary The present invention intends to produce poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) [P(3HB-co-3HHx)] with a high 3-hydroxyhexanoic acid fraction using a vegetable oil as a basic raw material. In accordance with the present invention, there is provided a method of producing a microorganism that produces poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) with a high 3-hydroxyhexanoic acid fraction using a vegetable oil as a basic raw material, by introducing a gene encoding R-hydratase that converts a fatty acid ^{2}-oxidation system intermediate to a monomer, (R)-3-hydroxyacyl-CoA [R-3HA-CoA], into a recombinant Cupriavidus necator strain that was conferred an ability of producing P(3HB-co-3HHx).

IPC 8 full level

C12P 7/62 (2006.01); **C12N 9/88** (2006.01); **C12N 15/09** (2006.01)

CPC (source: EP US)

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Cited by

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